

Reverse Shift Switch

Testing/replacement

The reverse shift switch (A, **Figure 60**) is mounted on the rear crankcase cover. The reverse shift switch sends a signal to the electronic control unit of the electric shift system to indicate that the transmission is in reverse gear.

1. Remove the seat as described in Chapter Fifteen.
2. Remove the alternator (B, **Figure 2**) and gear position/reverse switch (A) connectors from the frame.
3. Disconnect the gear position/reverse switch connector (A, **Figure 2**).
4. Switch an ohmmeter to the $R \times 1$ scale and connect the leads between the gray/red wire terminal in the switch end of the connector and ground. The ohmmeter should show continuity with the reverse button depressed and infinity when the button is released.
5. If any readings are incorrect, replace the reverse shift switch as follows:
 - a. Detach the switch wire (B, **Figure 60**) from the switch (A).
 - b. Remove the switch. Discard the washer.
 - c. Install the switch and a new washer. Tighten the switch to 13 N•m (115 in.-lb.).

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LIGHTING SYSTEM

The lighting system consists of a headlight, assist headlight, taillight and indicator lights. **Table 4** lists replacement bulbs for these components.

Always use the correct wattage bulb. Using the wrong size bulb will produce a dim light or cause the bulb to burn out prematurely.

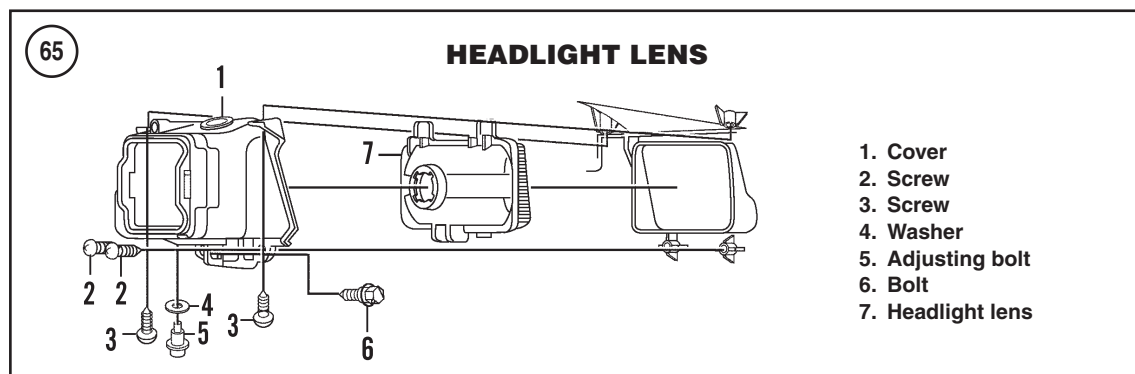
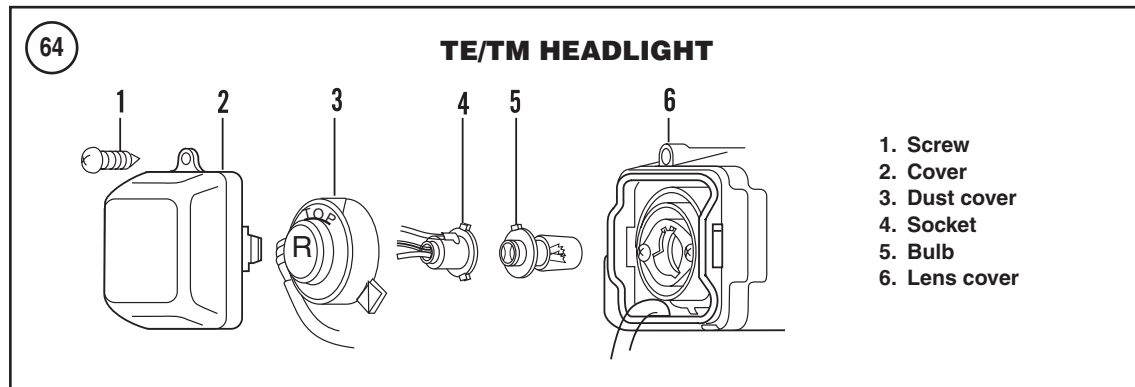
Headlight Bulb Replacement (FE/FM Models)

WARNING

If the headlight just burned out or was just turned off, it will be hot! Do not touch the bulb until it cools.

Refer to **Figure 61**.

1. Remove the screw and the headlight bulb cover (**Figure 62**).
2. Turn the bulb (**Figure 63**) counterclockwise and remove it.



3. Disconnect the electrical lead from the bulb.
4. Install the new bulb by reversing the removal procedure. Make sure the rubber seal ring on the electrical connector is in good condition.
5. Check headlight operation.

7. Install the dust cover with the TOP mark facing up. Make sure the dust cover seats completely against the headlight housing.
8. Install the headlight bulb cover by aligning the tab with the groove in the headlight housing.
9. Check headlight operation.

Headlight Bulb Replacement (TE/TM Models)

WARNING

If the headlight just burned out or was just turned off, it will be hot! Do not touch the bulb until it cools.

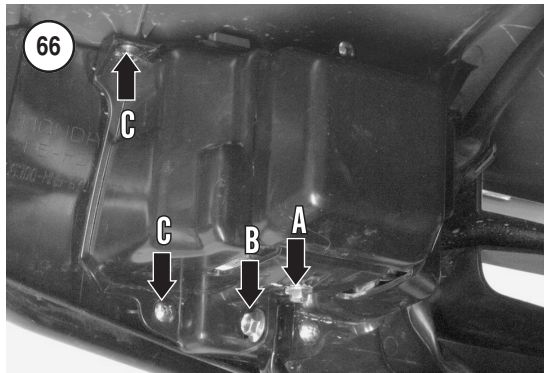
Refer to **Figure 64**.

1. Remove the screw and the headlight bulb cover.
2. Remove the dust cover.
3. Turn the bulb socket counterclockwise and remove it.
4. Remove the bulb.
5. Install the new bulb by aligning the bulb tab with the groove in the bulb housing.
6. Install the bulb socket. Turn and lock it in place.

Headlight Lens Removal/Installation

Refer to **Figure 65**.

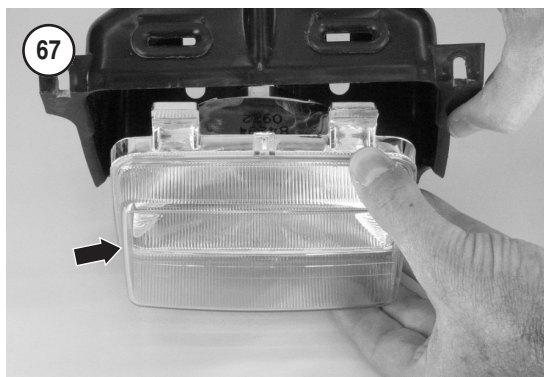
1. Remove the headlight bulb as described in this chapter.
2. Remove the headlight aim adjusting screw (A, **Figure 66**).
3. Remove the lower mounting bolt (B, **Figure 66**).
4. Remove the four retaining screws (C, **Figure 66**), then remove the headlight.
5. Disengage the lens tabs from the headlight housing slots and separate the lens from the housing (**Figure 67**).
6. Install the headlight lens and housing by reversing the preceding removal steps. Check headlight operation. Adjust the headlight as described in this chapter.



Headlight Adjustment

The headlight is equipped with only a vertical aiming adjust screw located at the bottom of the headlight (A, **Figure 66**).

To adjust the headlight vertically, turn the screw clockwise to aim the light lower and counterclockwise to direct the light up.



Taillight Bulb Replacement

1. Open the tool box cover.
2. Push the taillight studs (**Figure 68**) out of the grommets and remove the taillight housing.
3. Turn the bulb holder (**Figure 69**) counterclockwise and remove it from the lens housing.
4. Remove the old bulb from the bulb holder.
5. Reverse the preceding steps to install a new bulb. Note the UP mark on the taillight housing when installing it into the tool box cover. Check taillight operation.



Indicator Bulb Replacement

U.S. FM and TM models are equipped with individual indicator bulbs for oil pressure, reverse gear and neutral. FE and TE models, as well as Canadian FM and TM models, are equipped with LED indicator lights that are part of the digital display in the combination meter. Refer to the following procedure to remove individual indicator bulbs.

NOTE

The digital display combination meter, which includes LED indicator lights, is optional on U.S. FM and TM models.



1. Remove the handlebar cover as described in Chapter Fifteen.
2. Pull the socket out of the handlebar cover, then remove the bulb.
3. Reverse the preceding steps to install the new bulb.
4. When installing the socket, align the tab on the socket with the groove in the handlebar cover.
5. Start the engine and check bulb operation.

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